

RS - INT
REGENERATION
Fp-10 (Payette)

November 18, 1940

Establishment Report (Fall 1940)

PONDEROSA PINE SEEDING-PLANTING EXPERIMENT
IN PHILLIPS CREEK BURN, PAYETTE NATIONAL FOREST

Survey of Plots: On November 8, 1940, Assistant Silviculturist, E. L. Mowat and Jr. Field Assistant, H. L. Ketchie, located the sites for, and staked the corners of six combination seeding and planting plots. These plots are located in Swindlers Gulch, just east of the Halleck and Howard logging camp in Payette River Canyon, 4.5 miles above the highway junction at Banks. Each plot is rectangular in shape being 135' x 50'. See attached map of plots.

Plot Establishment: On November 12, Ketchie and Jr. Agricultural Aid, J. K. Melvin, with a crew of 4 CCC boys from the Garden Valley Camp, began work on the plots. Rows were marked at the top by squared, white painted, stenciled stakes, the ends of which had been creosoted for about a foot. At the lower side of the plots the stakes are rough split, but otherwise the same as the top stakes.

All materials and tools for the work were packed to the plots from the mouth of Swindlers Gulch. All minor roads in area are closed and brush-strewn for erosion control.

Plots 1, 3, 4, and 6, were finished as per working plan with the addition of fall planting of transplants as described later. However because of frozen ground conditions and the CCC boy's unfamiliarity with planting tools and methods, the work was slower than had been expected. Consequently on plots 2 and 5, planting was not carried out, although seeding with cones was accomplished except for row #4 in plot 5.

Work on plots 1, 2, and 5 was done on November 16, by E. L. Mowat and a crew of Boise Basin Branch ERA men, who drove to the planting site to help out on ^{that} day.

In plots 3, 4, and 6 the seeding and planting spots were scalped somewhat larger than had been planned, about 24". Because of frozen ground conditions, especially ~~in~~ on the north slope, the ground was disturbed more than normally. In the spring it will be desirable to clear away large clots and sloughed dirt from the spots completed this fall.

Row direction is parallel to slope direction in all plots, and as nearly north and south as topography will permit.

Planting of Transplants: A departure from the original plan was made in doing part of the planting in the fall and in using stock from Smiths Ferry Nursery as well as from McCall Nursery. The CCC from Camp F-166

at Garden Valley were making an extensive planting of Smiths Ferry stock on the west side of the Payette River just opposite Swindlers Gulch at this time. With labor and stock right at hand and soil conditions favorable the chance to try fall planting and to test the additional variable of stock source was too good to pass by. A general comparison may also be made with the results of the CCC administrative planting.

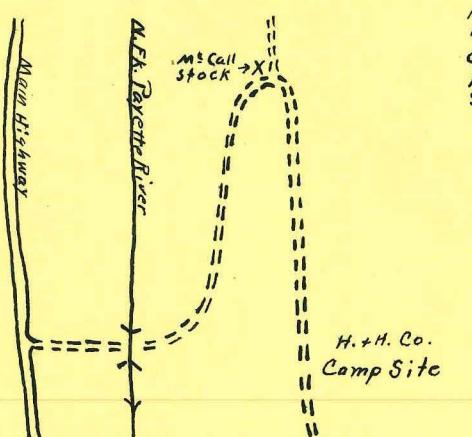
It was desired not to extend the size of the job unduly nor to enlarge the plots, so only every other random row number chosen for planting was selected for fall planting, the remainder to be done in the spring. Thus only 3 rows per plot were planted. To accommodate the two kinds of stock, a paired-spot scheme was adopted, with a tree of each source being planted about 1 foot apart in each spot. The width of scalping was made large enough to accommodate the two trees. The McCall stock was planted to the right, Smiths Ferry to the left in the rows, looking uphill at each plot.

Planting stock from Smiths Ferry was not in first class condition. It had been rehandled several times, but mostly in wet weather so that the roots should not have dried excessively. The roots on many of the trees were unduly short (4 - 6 inches) and tended to be massed together. The worst specimens were called out.

The freezing temperatures during part of the planting time may have been unfavorable, but the roots were set in unfrozen ground.

The McCall stock was received direct from the nursery. The tops looked fresher, and the roots were larger and wider spread than the other stock.

All McCall Nursery stock held over for spring planting is handled in as described by the following rough sketch:



The Smiths Ferry stock is handled in along the road just above the flat enclosure at headquarters in Boise Basin.

Establishment (Spring 1941): Spring establishment will consist of planting 3 rows each in plots 1, 3, 4, and 6. In plots 2 and 5, the seeding without protection rows must be seeded and all planting in these two plots must be done then. Also row #4 in plot 5 should be seeded and protecting cones placed over the seeded spot. See attached progress plan.

Experimental Design: Failure to complete all scheduled work, use of planting stock of two sources, and the addition of fall planting change the experimental design, so that the scheme of analysis proposed in the plan will not apply without modification. However, by suitable combination of data a similar plan of analysis can be devised. It seems best to await results before outlining this in detail.

Henry L. Ketchie
HENRY L. KETCHIE
Jr. Field Asst.

Row Plan for Payette Combination
Seeding and Planting Plots in Swindlers Gulch

South Exposure

North Exposure

Plot # 1

<u>Seeding without cones</u>	<u>Seeding with cones</u>	<u>Planting</u>	<u>Seeding without cones</u>	<u>Seeding with cones</u>	<u>Planting</u>
3	2	1	2	1	3
4	6	5 SP	5	8	4 SP
8	11	7	6	9	7
9	14	10 SP	11	10	15 SP
12	15	16	12	14	16
13	18	17 SP	13	18	17 SP

Plot # 2

3	2	1	1	4 SP	2
5	9	4	5	6	3
6	11	8	12	9	7
7	13	12	13	14	8
10	14	16	15	17	10
18	15	17	16	18	11

Plot # 3

2	1	5	4	1	6
6	3	8 SP	5	2	11 SP
7	4	12	8	3	13
9	10	15 SP	10	7	14 SP
14	11	16	16	9	15
18	13	17 SP	17	12	18 SP

Plot # 6

SP - Spring planting and seeding

RS-INT
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FP-10

UNITED STATES DEPARTMENT OF AGRICULTURE—FOREST SERVICE

Land District. Mag. Declin.

Area

Acres

9

T. 9N R. 3E

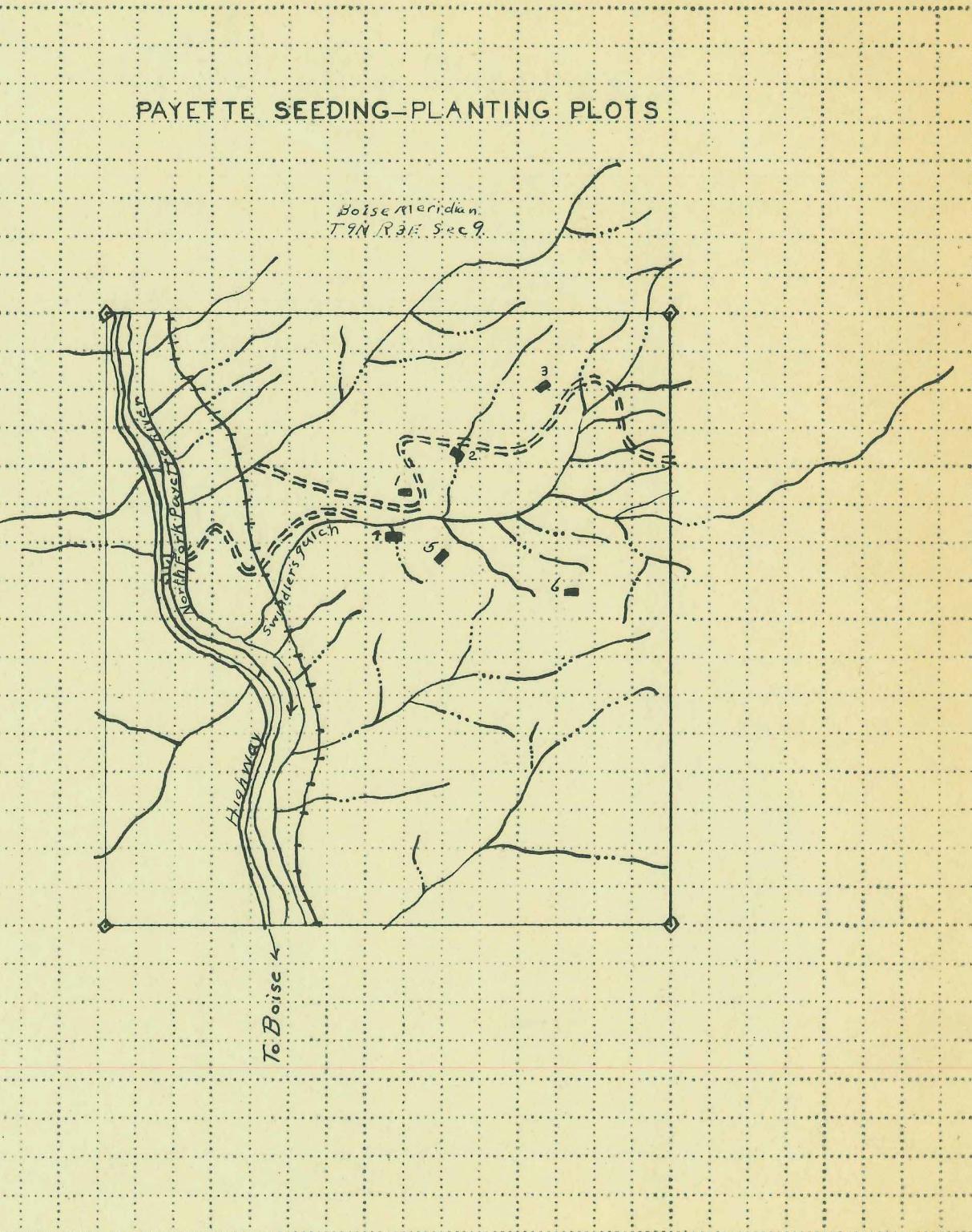
Boise

Mer.

Scale 7 inches = 1 mile

(Case designation)

(Subdivision and section)



Field work by _____, Date NOV. 8, 1940, Platted by HLK

Plot locations are approximate only; not tied in. Area contains many logging

Remarks: roads (mostly impassable) not shown on map.

Approved _____, 19_____,

(Approving officer.)